

**TECHNICAL SHEET**

<b>B1214</b>	<b>M-HD ENDO BROTH</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Casein enzymic hydrolysate		10.00			
Peptic digest of animal tissue		10.00			
Yeast extract		3.00			
Lactose		20.00			
Sodium deoxycholate		0.20			
Sodium chloride		5.00			
Dipotassium phosphate		6.00			
Sodium sulphite		2.10			
Basic fuchsin		0.84			
Final pH (at 25°C) : 7.5 ± 0.2					
<b>Directions :</b>					
Suspend 57.14 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired. DO NOT AUTOCLAVE. Use on the same day of preparation.					
<b>Principle :</b>					
Casein enzymic hydrolysate, peptic digest of animal tissue and yeast extract as source of essential nutrients including vitamins and B-complex nutrients. Lactose is the fermentable carbohydrate and energy source. Sodium deoxycholate is the selective agent, which helps to inhibit non-coliform bacteria. Sodium chloride maintains the osmotic equilibrium of the medium while dipotassium phosphate buffers the medium. Lactose-fermenting coliforms produce aldehyde and acid. The aldehyde in turn liberates fuchsin from the fuchsin-sulphite complex, giving rise to red coloured colonies. With Escherichia coli, this reaction is more pronounced as the fuchsin crystallizes, exhibiting a permanent greenish metallic luster (fuchsin luster) to the colonies. Sterile cotton absorbent pads are saturated with around 2 ml of M-HD Endo Broth. Membrane filter through which the test water sample has been passed is aseptically placed on these saturated absorbent cotton pads containing the medium.					
<b>QC Tests - (I) Dehydrated Medium</b>					
Colour :		Light pink to purple			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.5 ± 0.2			
Colour (post autoclaving/heating) :		Light pink			
Clarity (post autoclaving/heating) :		Clear solution without any precipitate			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 18 -24 hrs. at 35-37°C.					
MICROORGANISM (ATCC)		GROWTH		Colour of colony (on membrane filter)	
Escherichia coli (25922)		Luxuriant		red to black with metallic sheen	
Enterobacter aerogenes (13048)		Luxuriant		red to black	
Salmonella Typhi (6539)		Luxuriant		colourless	
Staphylococcus aureus (25923)		Inhibited		---	
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>	It is recommended for the detection of coliforms in water samples by membrane filter technique.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1214</b>	57.14 g/l	8.750 L	7.5 ± 0.2	NIL	DO NOT AUTOCLAVE

**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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